

**IN THE CLAIMS:**

No claims have been amended herein. Please note that all claims currently pending and under consideration in the above-referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

Claims 1-44 (Canceled)

45. (Previously Presented) A rocket motor assembly, comprising:

a rocket motor case, a skirt and a shear ply interposed between and connecting the rocket motor case and the skirt, the shear ply comprising a rubber component cured from a precursor composition comprising:

a first hydrogenated nitrile conjugated-diene copolymer modified by a metal salt unsaturated carboxylic acid ester, wherein the first hydrogenated nitrile conjugated-diene copolymer is derived from a first composition comprising a first ethylenically unsaturated nitrile and a first conjugated diene;

a second hydrogenated nitrile conjugated-diene copolymer derived from a second composition comprising a second ethylenically unsaturated nitrile and a second conjugated diene, wherein the second hydrogenated nitrile conjugated-diene copolymer is not modified with a metal salt unsaturated carboxylic acid ester; and

a curing agent.

46. (Previously Presented) The rocket motor assembly of claim 45, wherein the first ethylenically unsaturated nitrile and the second ethylenically unsaturated nitrile are identical or different and are each selected to comprise at least one member selected from the group consisting of acrylonitrile and methacrylonitrile.

47. (Previously Presented) The rocket motor assembly of claim 45, wherein the first ethylenically unsaturated nitrile and the second ethylenically unsaturated nitrile each comprise acrylonitrile.

48. (Previously Presented) The rocket motor assembly of claim 45, wherein the first conjugated diene and the second conjugated diene are identical or different and are each selected to comprise at least one member selected from the group consisting of butadiene, isoprene, dimethylbutadiene, 1,3-pentadiene, and piperylene.

49. (Previously Presented) The rocket motor assembly of claim 45, wherein the first conjugated diene and the second conjugated diene each comprise butadiene.

50. (Previously Presented) The rocket motor assembly of claim 45, wherein the metal salt unsaturated carboxylic acid ester is derived from at least one ethylenically unsaturated monocarboxylic acid and at least one member selected from the group consisting of a metal and a metallic compound, and wherein the at least one ethylenically unsaturated monocarboxylic acid comprises at least one member selected from the group consisting of acrylic acid, methacrylic acid, crotonic acid, and 3-butenic acid.

51. (Previously Presented) The rocket motor assembly of claim 45, wherein the metal salt unsaturated carboxylic acid ester is derived from at least one ethylenically unsaturated dicarboxylic acid and at least one member selected from the group consisting of a metal and metallic compound, and wherein the at least one ethylenically unsaturated dicarboxylic acid comprises at least one member selected from the group consisting of maleic acid, fumaric acid, and itaconic acid.

52. (Previously Presented) The rocket motor assembly of claim 45, wherein the metal salt unsaturated carboxylic acid ester comprises at least one element selected from the group consisting of zinc, magnesium, calcium, and aluminum.

53. (Previously Presented) The rocket motor assembly of claim 45, wherein the metal salt unsaturated carboxylic acid ester comprises zinc dimethacrylate.

54. (Previously Presented) The rocket motor assembly of claim 45, wherein the curing agent comprises a peroxide curing agent.

55. (Previously Presented) The rocket motor assembly of claim 45, wherein the curing agent comprises 2,2'-bis(t-butylperoxy)diisopropyl benzene.

56. (Previously Presented) The rocket motor assembly of claim 45, wherein the curing agent is dispersed in a clay carrier.

57. (Previously Presented) The rocket motor assembly of claim 45, wherein the precursor composition is essentially free of silica.

58. (Previously Presented) The rocket motor assembly of claim 45, wherein carbon-carbon double bonds in each of the first hydrogenated nitrile conjugated-diene copolymer and the second hydrogenated nitrile conjugated-diene copolymer are hydrogenated to between about 85% and about 95% saturation.

59. (Previously Presented) The rocket motor assembly of claim 45, wherein carbon-carbon double bonds in each of the first hydrogenated nitrile conjugated-diene copolymer and the second hydrogenated nitrile conjugated-diene copolymer are hydrogenated to between about 90% and about 92% saturation.

60. (Previously Presented) The rocket motor assembly of claim 45, wherein the shear ply comprises a laminate of the rubber component and a fibrous material.

61. (Previously Presented) The rocket motor assembly of claim 60, wherein the fibrous material comprises a graphite fiber/epoxy composite.

Claims 62-76 (Canceled)